

Form PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV 10-95) <b>TRANSMITTAL LETTER TO THE UNITED STATES          DESIGNATED/ELECTED OFFICE (DO/EO/US)          CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>0149-045207</b>		
		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/508871</b>		
INTERNATIONAL APPLICATION NO. <b>PCT/JP03/03401</b>	INTERNATIONAL FILING DATE <b>20.03.03 (March 20, 2003)</b>	PRIORITY DATES CLAIMED <b>25.03.02; 05.11.02; 21.01.03</b>		
TITLE OF INVENTION <p style="text-align: center;"><b>TITANIUM OXIDE PHOTOCATALYST, PROCESS FOR PRODUCING          THE SAME AND APPLICATION</b></p>				
<table style="width: 100%; border: none;"> <tr> <td style="width: 60%; vertical-align: top;"> <b>APPLICANT(S) FOR DO/EO/US</b>  <b>Katsumi OKADA, Katsuhiko NISHIHARA, Yasuhiro MASAKI,</b>  <b>Haruhiko KAJIMURA, Michiyasu TAKAHASHI, Tadashi YAO,</b>  <b>Tadashi OGASAWARA, Munetoshi WATANABE, Shinji SHIMOSAKI, Kouji ODA and Sadanobu NAGAOKA</b> </td> <td style="width: 40%; vertical-align: top;"> <b>Assignees: Sumitomo Titanium Corporation  and Sumitomo Metal Industries, Ltd.</b> </td> </tr> </table>			<b>APPLICANT(S) FOR DO/EO/US</b> <b>Katsumi OKADA, Katsuhiko NISHIHARA, Yasuhiro MASAKI,</b> <b>Haruhiko KAJIMURA, Michiyasu TAKAHASHI, Tadashi YAO,</b> <b>Tadashi OGASAWARA, Munetoshi WATANABE, Shinji SHIMOSAKI, Kouji ODA and Sadanobu NAGAOKA</b>	<b>Assignees: Sumitomo Titanium Corporation  and Sumitomo Metal Industries, Ltd.</b>
<b>APPLICANT(S) FOR DO/EO/US</b> <b>Katsumi OKADA, Katsuhiko NISHIHARA, Yasuhiro MASAKI,</b> <b>Haruhiko KAJIMURA, Michiyasu TAKAHASHI, Tadashi YAO,</b> <b>Tadashi OGASAWARA, Munetoshi WATANABE, Shinji SHIMOSAKI, Kouji ODA and Sadanobu NAGAOKA</b>	<b>Assignees: Sumitomo Titanium Corporation  and Sumitomo Metal Industries, Ltd.</b>			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items And other information:				
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</li> <li>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</li> <li>5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> have been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>				
<b>Items 11. to 16. Below concern document(s) or information included:</b>				
<ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.           <div style="margin-left: 20px;"> <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.           </div> </li> <li>14. <input type="checkbox"/> A substitute specification.</li> <li>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>16. <input checked="" type="checkbox"/> Other items or information:           <ol style="list-style-type: none"> <li>a. WO 03/080244 Front Page with Abstract and Search Report (4 pp.)</li> </ol> </li> </ol>				

U.S. APPLICATION NO. <b>10/508871</b>		INTERNATIONAL APPLICATION NO. PCT/JP03/03401		ATTORNEY'S DOCKET NUMBER 0149-045207	
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17. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)):</b> Search Report has been prepared by the EPO or JPO..... \$920.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) ..... \$730.00 No international preliminary examination fee paid to USPTO (37 CFR 1.482) But international search fee paid to USPTO (37 CFR 1.445(a)(2))..... \$770.00 Neither international preliminary examination fee (37 CFR 1.482) nor International search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$1080.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) And all claims satisfied provisions of PCT Article 33(2)-(4)..... \$100.00				<b>CALCULATIONS PTO USE ONLY</b>	
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>				<b>\$ 920.00</b>	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				<b>\$ 130.00</b>	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	37 - 20 =	17	X \$18.00	\$ 306.00	
Independent claims	6 - 3 =	3	X \$86.00	\$ 258.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$290.00	<b>\$ 0.00</b>	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$ 1,614.00</b>	
Reduction of 1/2 for filing by small entity, if applicable.				<b>\$ 1,614.00</b>	
<b>SUBTOTAL =</b>				<b>\$ 1,614.00</b>	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				<b>\$ 0.00</b>	
<b>TOTAL NATIONAL FEE =</b>				<b>\$ 1,614.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				<b>\$ 0.00</b>	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 1,614.00</b>	
				Amount to be: Refunded	\$
				Charged	\$

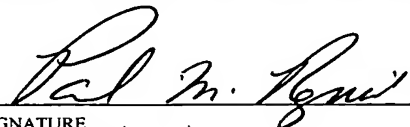
a. ☒ A check in the amount of \$ 1,614.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-0650. A duplicate copy of this sheet is enclosed.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:  
 Russell D. Orkin  
 700 Koppers Building  
 436 Seventh Avenue  
 Pittsburgh, Pennsylvania 15219-1818  
 Telephone: (412) 471-8815  
 Facsimile: (412) 471-4094

  
 SIGNATURE  
 Paul M. Reznick  
 NAME  
 33,059  
 RE059TRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

ATTORNEY'S DOCKET NUMBER

**Katsumi OKADA et al.**

**0149-045207**

**PCT/JP03/03401**

ENTITLED

**"TITANIUM OXIDE PHOTOCATALYST, PROCESS  
FOR PRODUCING THE SAME AND APPLICATION"**

**To MAIL STOP PCT**

Attention: DO/EO/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**EXPRESS MAIL CERTIFICATE**

"Express Mail" Label Number **EV534966900US**

Date of Deposit **September 23, 2004**

I hereby certify that the following attached papers or fees

**TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/  
ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER**

**35 U.S.C. 371 (original and two (2) copies) and check in amount  
of \$1,614.00 for filing fee and surcharge fee for late Declaration**

**LETTER RECOGNIZING ATTORNEYS (1 p.)**

**PRELIMINARY AMENDMENT**

**WO 03/080244 – FRONT PAGE with ABSTRACT and SEARCH REPORT (4 pp.)**

**ENGLISH TRANSLATION OF PCT/JP03/03401 (53 pp.)**

**FOUR (4) SHEETS OF DRAWINGS**

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA, 22313-1450.

Nora Ann Pastrick

(Typed name of person mailing paper or fee)



(Signature of person mailing paper or fee)

Application No. Not Yet Assigned  
Paper Dated: September 23, 2004  
In Reply to USPTO Correspondence of N/A  
Attorney Docket No. 0149-045207

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : Not Yet Assigned  
Applicant : **Katsumi OKADA et al.**  
Filed : Concurrently Herewith  
Title : **TITANIUM OXIDE PHOTOCATALYST,  
PROCESS FOR PRODUCING THE SAME  
AND APPLICATION**  
International Application : No. PCT/JP03/03401  
International Filing Date : 20 March 2003  
Priority Dates Claimed : 25 March 2002; 05 November 2002; 21 January 2003

**MAIL STOP PCT**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**LETTER RECOGNIZING ATTORNEYS**

Sir:

Enclosed are appropriate papers for initiating the national phase of the above-identified PCT application, comprising a specification, claims and drawings. A Preliminary Amendment is also enclosed.

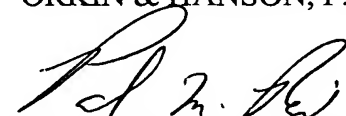
Please accept the application for purposes of granting a filing date and recognize, Russell D. Orkin, Paul M. Reznick and Richard L. Byrne Registration Nos. 25,363, 33,059 and 28,498, respectively, as attorneys in this application, pending the filing of a formal Declaration and Power of Attorney.

Kindly direct all communications relating to this application to **Russell D. Orkin.**

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON  
ORKIN & HANSON, P.C.

By



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